To: Jerry.Salera@conservation.ca.gov[Jerry.Salera@conservation.ca.gov]

Cc: Dermer, Michele[Dermer.Michele@epa.gov]

From: Robin, George

Sent: Thur 3/21/2013 7:40:49 PM

Subject: (2nd Try) (Final)(Tech Review) Cat Canyon Aquifer Exemption Application - Sisquoc Zone

Jerry, apologies for missing your correct email address on the 1st Try.

George

George Robin (robin.george@epa.gov)

Engineer, Underground Injection Control

US EPA, Region IX Phone (415) 972-3532

75 Hawthorne St. Fax (415) 947-3549

Ground Water Office

Mail Code: WTR-9

San Francisco, CA 94105

From: Robin, George

Sent: Thursday, March 21, 2013 11:20 AM

To: Salera, Jerry@DOC **Cc:** Dermer, Michele

Subject: (Final)(Tech Review) Cat Canyon Aquifer Exemption Application - Sisquoc Zone

Hi Jerry,

• □ □ □ □ □ □ Please see my replies depicted as "[GR] I agree" within <u>your earlier email</u> and just below your comments "[JS] I believe". I wanted to retain the same context in response.
Additionally:
•□□□□□□ Please refer to Appendix H – Correspondence ERG_RWQCB
I have a problem with the exchange between the operator and the Regional Board in a number of areas. First, EPA's interest, as an agency, is formally, ultimately focused upon the Ca. DOGGR's making the petition to all the interested/affected parties of the state. The Appendix H does not satisfactorily represent this kind of agency-to-agency exchange. The operator's (Michelle Ricker, SCS Engineers) response to the Regional Board only provided them with information – for the Regional Board to figure out – and the information package that is cited is missing – for the EPA to retrieve. This was not an answer to the Board's question. The App. H did not provide whether or how the Board responded either. In short, this was not an official exchange represented by the Ca. DOGGR. Further, please assume that any question from the Regional Board (or anyone else) is in effect, a question from EPA.
Thank you for your patience, allowing me the opportunity to focus my review in this way, in these circumstances.
Please consider my review finished. Michele Dermer may have additional input?
Please let me know if we need to discuss. I will try my best to accommodate your busy schedule!
George

From: Salera, Jerry@DOC [mailto:Jerry.Salera@conservation.ca.gov]

Sent: Thursday, March 14, 2013 11:08 AM

To: Robin, George **Cc:** Dermer, Michele

Subject: RE: (Preliminary)(Tech Review) Cat Canyon Aquifer Exemption Application - Sisquoc Zone

Hi George,

I've forwarded the additional documentation the operator needs to do as discussed below. I do have some questions which I've highlighted on some items I'm not clear with and request clarification. I've indicated my comments/query in red for readability.

Also, do you have any more comments that needs to be take cared of. Kindly let me know as soon as possible. Thanks.

Jerry

From: Robin, George [mailto:Robin.George@epa.gov]

Sent: Friday, March 08, 2013 2:31 PM

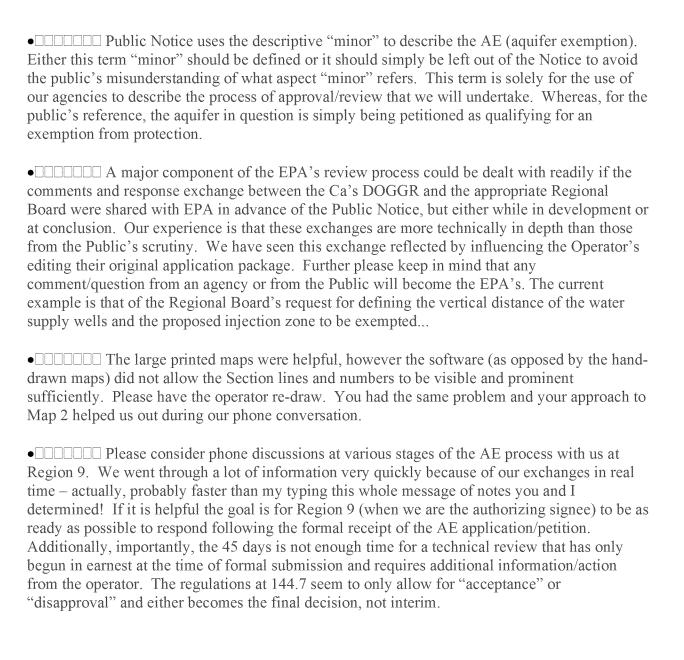
To: Salera, Jerry@DOC

Cc: Albright, David; Dermer, Michele; R9-Deep

Subject: RE: (Preliminary)(Tech Review) Cat Canyon Aquifer Exemption Application - Sisquoc Zone

Hi Jerry,

This is the first set of notes. I might come up with more, but will let you know immediately when this review is finished.



[JS] I believe we have had preliminary phone discussions on this project to clarify various data 2-3 times before the submission last Feb 20 (since withdrawn). I emailed the initial materials early December and subsequently emailed additional documents after these preliminary discussions. Do you propose a more in-depth discussion and documentation prior to formal submission? By in-depth discussion and documentation, I mean a more or less thorough review of the material submitted so that any possible changes to the AE document during the 45-day technical review period will not be substantial requiring, in EPA's view, an additional Public Comment period. I'm posing this question to guide us in future submissions.

[GR] I agree that the preliminary discussions were valuable. Yes, for one, by the time the AE is ready for Public Comment, the Regional Board will have exchanged their comments and likely

affected the material. The other comments I made, such as in this email should refer to the degree of scrutiny to which the operator must supply their information and explanation. But I thank you for our cooperative collaboration on this project and the larger issue of future Aquifer Exemptions. The application packages can certainly be prepared to include easy-to-follow documentation and descriptions, etc., however, the AE process will probably never be quite the desired "streamlined, automatic" process because this process, by its very nature demands multiple levels of review and takes into account, a wide range of possible scenarios.

We have to try to get a good, engineering handle though, and that is being developed as we expect more AEs along with improvements in technology. A rule of thumb is that the application should be understood by a "novice" reviewer, especially one who is not familiar with oil field literature and depictions. How do these tables, charts, maps support the application? It can always be assumed that this support as supplied by the application is not as obvious to the reviewer, especially EPA, as it is to the operator of the field's technical staff. Ultimately, the technical staff must understand that the reason for needing this level of explanation is because the EPA must be able to defend their decision – many times, to novice reviewers.

• □ □ □ □ □ □ The operator's application's cross-sectional diagrams must correspond with the actual wells on the map. Please have the operator go through these to verify and make any changes needed. Additionally, those cross-sections should be sufficiently able to address the Regional Board's comments.
•□□□□□□ The maps do not all agree in displaying the Fresh Water wells (unnamed), Fresh Water well 5-25 and Fresh Water Well 6-25. All the maps should agree on the locations.
•□□□□□□□ The AE did not include portions of the field/reservoir where wells 172 and 18-25 in Section 25 (?) and well 96 in Section 36 (?) show being Active Producer. Please have the operator clarify or edit the AE boundaries (to avoid an additional application for a previously overlooked, productive portion).
• □ □ □ □ □ Please clarify that the exchange and response to the Regional Board's comments were concluded and made available during the period soliciting Public Comments.
• □ □ □ □ □ □ □ Please consider that as a result of the operator's additional, informational response to any review comments, those changes to the application may be determined as significant, enough to trigger an additional Public Comment period. I know of no applicable guidance as of yet, however, my intuition is that this will not be a difficult decision and will become readily apparent to everyone.

[JS] How long would an acceptable additional Public Comment period be? Do you need to see

the changes and concur to the document before we can initiate the newspaper Ad?

[GR] I do not know. We can discuss this, but it will be a legal/management decision. Per my above comment, a major factor is whether the application's editing will be substantial, sufficient to trigger a full Comment period. Those situations are not uncommon. What would be unique is that the Public Comment period will be accompanied by an explanation for the additional period – so that those in the public arena, who examined this before and had no comments, may simply choose to focus upon those highlighted changes that triggered the comment period.

That is what I have so far. I want to get these to you before the end of our day. We went through these items initially because they were the ones that are key in documenting and justifying the case for using Class II EOR in this unexempted area.

Thanks,

George

George Robin (robin.george@epa.gov)

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San Francisco, CA 94105

From: Robin, George

Sent: Friday, March 08, 2013 8:56 AM

To: Salera, Jerry@DOC

Cc: Kustic, Tim@DOC; Abel, Pat@DOC; Albright, David; Dermer, Michele

Subject: RE:(Tech Review) Cat Canyon Aquifer Exemption Application - Sisquoc Zone

Hi Jerry,

Per our conversation yesterday, the (technical) review of the AE (aq. exemption) application remains ongoing for the sake of expediency and facilitating the resubmission of the AE with contents that are readily acceptable.

We are intent on developing a smooth AE process and participation as it concerns the agencies, the operators and the public.

I will forward my notes and will continue submitting including when the review is finished.

George

George Robin (robin.george@epa.gov)

Engineer, Underground Injection Control

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75 Hawthorne St. Fax (415) 947-3549

Ground Water Office

Mail Code: WTR-9

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From: Dermer, Michele

Sent: Thursday, March 07, 2013 3:41 PM

To: Salera, Jerry@DOC

Cc: Robin, George; Kustic, Tim@DOC; Abel, Pat@DOC; Albright, David **Subject:** RE: Cat Canyon Aquifer Exemption Application - Sisquoc Zone

Thanks for the information Jerry.

From: Salera, Jerry@DOC [Jerry.Salera@conservation.ca.gov]

Sent: Thursday, March 07, 2013 11:14 PM

To: Dermer, Michele

Cc: Robin, George; Kustic, Tim@DOC; Abel, Pat@DOC

Subject: Cat Canyon Aquifer Exemption Application - Sisquoc Zone

Hi Michele,

Please be informed that we would like to withdraw the recently submitted AE application for the Sisquoc aquifer in the Cat Canyon field. We intend to resubmit this after providing additional documentation to the application package. A formal letter will be sent to you to confirm this withdrawal. Thank you.

Jerry Salera

Underground Injection Control (UIC) Program

CA Division of Oil, Gas and Geothermal Resources

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